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APPLICANT : NIPPON STEEL CORP;

INVENTOR : ASHIURA TAKEO;

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TITLE : MANUFACTURE OF FERRITIC STAINLESS STEEL SHEET CAUSING NO RIDGING

ABSTRACT : PURPOSE: To improve the ridging resistance of a steel contg. Nb and having a single ferrite phase and to prevent thoroughly ridging by repeating recrystallization including at the time of hot rolling.

CONSTITUTION: The composition of a ferritic stainless steel is composed of, by weight, <0.015% C, 0.015~0.035% N, 0.2~1% Nb, 10~22% Cr and the balance Fe with inevitable impurities while satisfying $Nb > (C+N) \times 8$. A slab of the steel is heated at 1,100~1,250°C and hot rolled at $\geq 1,000^\circ\text{C}$ at $\geq 30\%$ draft per one pass. The hot rolled plate is annealed at 900~1,100°C for $\leq 10\text{min}$ and cooled. The plate is optionally process-annealed once or more, and it is cold rolled and subjected to recrystallization annealing.

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